

APRIL/MAY 2024

**23UEMB12 — BASIC AND CLINICAL
BIOCHEMISTRY**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are polysaccharides?
2. Explain the importance of LDL.
3. What are essential amino acids?
4. Give examples for conjugated proteins.
5. List out the role of beta cells in pancreas.
6. Define hypoglycemia.
7. What is the color of urine in Alkaptonuria?
8. What is PKU?
9. List the diagnosis enzymes.
10. Expand BUN.



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain about the classification of lipids.
Or
(b) Discuss about the structure of starch.
12. (a) List out the properties of amino acids.
Or
(b) Outline the proteins.
13. (a) Discuss about diabetes mellitus and its symptoms.
Or
(b) Explain about the hypercholesterolemia.
14. (a) Discuss about the causes of tyrosinemia.
Or
(b) Explain about Alkaptonemia.
15. (a) Explain urea clearance test.
Or
(b) List out the clinical significance of aspartate aminotransferase and alanine aminotransferase.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss in detail about general and classification carbohydrates.
17. Explain about classification and biological significance of protein.
18. Elaborate note on disorder of lipid metabolism.
19. Discuss about the disorders of amino acid metabolism.
20. Explain any two liver function of test.

